## 506379833 12/02/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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DOROTHEE HERMES	12/03/2019
SANDEEP UNNIKRISHNAN	11/27/2019
BO LIU	12/04/2019
ANDRIY YAROSHENKO	11/16/2020
JOHANNES WILHELMUS MARIA JACOBS	11/16/2020

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15734238

### **CORRESPONDENCE DATA**

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DATE SIGNED:	12/02/2020

PATENT 506379833 REEL: 054511 FRAME: 0235

# **Total Attachments: 5**

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r good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, reby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N ving a place of business at High Tech Campus 5, 5656 AE, Eindhoven, the Netherlands, and NEDERLANDSE RGANISATIE VOOR TOEGEPASTNATUURWETENSCHAPPELIJK ONDERZOEK TNO, having a place of business at A n Buerenplein 1, 2595 DA Den Haag, the Netherlands, its successors, assigns, and legal representatives, including any minees (collectively "the Assignee") my/our invention for which an application:

] is executed concurrently herewith

] was filed on \*\*\*, having a United States Application No. \*\*\*

was filed on 2019-Nov-11, having an International Application No. PCT/EP2019/080772,

d all rights in and to said application, and all other United States, foreign and international patent applications associated arewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisional visions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the right to claim prio areto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

Ve authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue and all Letters Patent when granted, solely to the Assignee(s), for its sole use, and that of its successors, assigns, and legal presentatives.

Ve will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extered non-request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testify in all legal occeedings including patent prosecution actions and infringement actions, and do all other such acts which may be cessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title ereto in the Assignee.

Ve certify that I/we have the full right to convey the above rights.

a below-named Inventor, I hereby declare that the above-identified application was made or authorized to be made by mediated that I am the original Inventor or an original joint Inventor of a claimed invention in the application.

ereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine o prisonment of not more than five (5) years, or both.

			Market and the second
ite: <u>16 11. 2020</u>	Signature:	Gereon VOGTMEJER	, Assignor/Inventor
ite:	Signature:		, Assignor/Inventor
ite:	Signature:	Dorothee HERMES	, Assignor/Inventor
		Bo LIU	
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ite:	Signature:		, Assignor/inventor
vá m. i	Cionatura	Sandeep UNNIKRISHNAN	, Assignor/Inventor
ite:	Signature:	Johannes Wilhelmus Maria JACORS	, Maaignoimiaentoi

hereby sell, and assign, and having a place of business at ORGANISATIE VOOR TOEC van Buerenplein 1, 2595 DA	transfer the entir t High Tech Cam SEPASTNATUUI Den Haag, the N	In I/we acknowledge receipt, I/we as a bek of and exclusive right, title, and interest in pus 5, 5656 AE, Eindhoven, the Netherlan RWETENSCHAPPELIJK ONDERZOEK T letherlands, its successors, assigns, and I invention for which an application:	the following to Koninklijke Philips N.V., ids, and NEDERLANDSE NO, having a place of business at Anna
is executed concurrently	herewith		
was filed on ***, having a	United States A	pplication No. ***	
was filed on 2019-Nov-1	1, having an Inte	mational Application No. PCT/EP2019/08	9772,
therewith, based thereon, or divisions, continuations, continuations, continuations	claiming priority invetions-in-part	Il other United States, foreign and internal therefrom including, but not limited to, any re-examinations, reissues, and extension e, and interest in and to any and all patent	and all provisionals, non-provisionals as thereof, and the right to claim priority
		fice officials in the United States and in ar the Assignee(s), for its sole use, and that	
Upon request at the expense proceedings including patent	of the Assignee prosecution acti	a the Assignee to enjoy the foregoing righ , I/we agree to execute all papers, take all ons and infringement actions, and do all o ng and maintaining patents on the forego	rightful oaths, testify in all legal ther such acts which may be
I/We certify that I/we have the	e full right to con	vey the above rights.	
		that the above-identified application was rail joint Inventor of a claimed invention in I	
I hereby acknowledge that ar imprisonment of not more tha		stement made in this declaration is punish or both.	able under 18 U.S.C. 1001 by fine or
Date:	Signature:	Gereos VOCTMEIER	
Date: 2-12-19	Signature:	Dorothee HERMES	
Date:	Signature:		, Assignor/Inventor
Date:	Signature:	Bo LIU	, Assignor/Inventor
	oshuama.	Andre YAROSHENKO	······································
Date: 22-11/19	Signature:	<u> </u>	, Assignor/inventor

Sandeep UNNIKRISHNAN

Johannes Wilhelmus Maria JACOBS

Signature:

Date:

PATENT REEL: 054511 FRAME: 0238

Assignor/Inventor

For good and valuable consideration, of which I/we acknowledge receipt, I/we as a below-named Assignor(s) or Inventor, hereby sell, and assign, and transfer the entire and exclusive right, title, and interest in the following to Koninklijke Philips N.V., having a place of business at High Tech Campus 5, 5656 AE, Eindhoven, the Netherlands, and NEDERLANDSE ORGANISATIE VOOR TOEGEPASTNATUURWETENSCHAPPELIJK ONDERZOEK TNO, having a place of business at Anna van Buerenplein 1, 2595 DA Den Haag, the Netherlands, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee") my/our invention for which an application:

	is executed concurrently herewith	
	was filed on ***, having a United States Application No. ***	
$\boxtimes$	was filed on 2019-Nov-11, having an International Application No.	PCT/EP2019/080772

and all rights in and to said application, and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority therefrom including, but not limited to, any and all provisionals, non-provisionals divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

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I/We will provide my/our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, I/we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecution actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

I/We certify that I/we have the full right to convey the above rights.

As a below-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Date:		Signature:	. —————————————————————————————————————	Assignor/Inventor
			Gereon VOGTMEIER	
Date:		Signature:	}	Assignor/Inventor
	all in anio		Dorothee HERMES	
Date:	04.12.2019	Signature:	Dorothee HERMES	Assignor/Inventor
		·	Bo LIU	
Date:		Signature:		Assignor/Inventor
		<b>~</b>	Andre YAROSHENKO	•
Date:		Signature:	•	Assignor/Inventor
		•	Sandeep UNNIKRISHNAN	•
Date:		Signature:	•	Assignor/Inventor
	***************************************	•	Johannes Wilhelmus Maria JACOBS	₩

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Date:	Signature:		,
		Gereon VOGTMEIER	A!
Date:	Signature:	Dorothee HERMES	, Assignor/Inventor
Date:	_ Signature:		, Assignor/Inventor
Date: 2020-11-16	Signature:	Bo LIU  Andriy Garoshenko  Andriy YARØSHENKO	, Assignor/Inventor
Date:	Signature:	Sandeep UNNIKRISHNAN	, Assignor/Inventor
Date:	Signature:	•	, Assignor/Inventor

**RECORDED: 12/02/2020** 

hereby sell, and assign, and train having a place of business at Hi ORGANISATIE VOOR TOEGEI van Buerenplein 1, 2595 DA De	nsfer the enting igh Tech Cam PASTNATUUI on Haag, the N	n I/we acknowledge receipt, I/we as a below-named e and exclusive right, title, and interest in the following pus 5, 5656 AE, Eindhoven, the Netherlands, and Name RWETENSCHAPPELIJK ONDERZOEK TNO, having letherlands, its successors, assigns, and legal represonments invention for which an application:	ng to Koninklijke Philips N.V., IEDERLANDSE g a place of business at Anna
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I/We certify that I/we have the fu	ull right to conv	vey the above rights.	
As a below-named Inventor, I he and that I am the original Invent	ereby declare or or an origin willful false sta	that the above-identified application was made or an eal joint Inventor of a claimed invention in the applicantement made in this declaration is punishable under	ation.
Date:	Signature:	Gereon VOGTMEIER	Assignor/Inventor
Date:	Signature:		Assignor/Inventor
Date:	Signature:	Dorothee HERMES	Assignor/Inventor
Date:	Signature:	Bo LIU	Assignor/Inventor
Date:	Signature:	Andre YAROSHENKO	
	*	Sandeep, UNNIKRISHINAN	Assignor/Inventor
Date: 100-16 Th. 2020	Signature:	Jana ,	Assignor/inventor

Johannes Wilhelmus Maria JACOBS

**PATENT** REEL: 054511 FRAME: 0241